LAMPIRAN

Technical Data Sheet
Edition 1, 2005
Identification no.
02 01 01 01 200 0 000174
Version no. 0010
Sika® Vicocrete® -3115 ID

Construction

Sika® Viscocrete® -3115 ID

Concrete Admixture for High Flow / Self-Compacting Concrete

Description	Sika ViscoCrete-3115 ID is a third generation superplasticiser for concrete and mortar. It is particularly developed for the production of high flow concrete with exceptional flow retention properties.
Uses	Sika ViscoCrete-3115 ID facilitates extreme water reduction, excellent flowability with optimal cohesion and strong self-compacting behaviour. Sika ViscoCrete-3115 ID is used for the following types of concrete : ■ High flow concrete ■ Self-compacting concrete (S.C.C.) ■ Concrete with very high water reduction (up to 30%) ■ High strength concrete ■ Watertight concrete ■ Pre-cast concrete The combination of high water reduction , excellent flowability and high early strength provides clear benefits in the above mentioned applications.
Advantages	Sika ViscoCrete-3115 ID acts by surface adsorption on the cement particles producing a sterical separation effects. Concrete produced with Sika ViscoCrete-3115 ID exhibits the following properties : ■ Excellent flowability (resulting in highly reduced placing and compacting efforts) ■ Strong self-compacting behaviour ■ Extremely high water reduction (resulting in high density and strengths) ■ Improved shrinkage and creep behaviour ■ Increased carbonation resistance of the concrete ■ Improved finish Sika ViscoCrete-3115 ID does not contain chlorides or other ingredients which promotes steel corrosion. Therefore, it may used without restriction for reinforced and pre-stressed concrete construction. Sika ViscoCrete-3115 ID gives the concrete extended workability and depending on the mix design and the quality of materials used, self-compacting properties can be maintained for more than 1 hour at 30°C.

Product Data

Type	Aqueous solution of modified polycarboxylate copolymers
Appearance	Turbid, Whitish
Specific Gravity	1.04 ± 0.01 kg / ltr
Shelf Life & Storage	12 months from date of production when stored in original unopened packaging in a cool, dry place
Packaging	200 kg drums and 1000 kg tanks

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Instruction For Use

Dosage

- For soft plastic concrete — 0.3 – 0.8% by weight of binder
- For flowing and self compacting concrete (S.C.C.) — 0.8 – 2.0% by weight of binder

Dispensing

Sika ViscoCrete-3115 ID is added to the gauging water or simultaneously poured with it into the concrete mixer. For optimum utilisation of its high water reduction property, it is recommended to thoroughly mix the concrete at a minimal wet mixing time of 60 seconds.

The addition of the remaining gauging water (to fine tune concrete consistency) may only be started after two-thirds of the wet mixing time, to avoid surplus water in the concrete.

Concrete Placing

With the use of Sika ViscoCrete-3115 ID, concrete of the highest quality is produced. The standard rules of good concreting practice (production as well as placing) must also be observed with Sika ViscoCrete-3115 ID concrete.

Fresh concrete must be cured properly.

Combinations

Sika ViscoCrete-3115 ID may be combined with the following products:

- Plastocrete R
- Plastiment RTD-01
- Plastiment VZ
- SikaFume
- SikaAER

Pre-trials are recommended if combinations with the above products are required. Please consult our Technical Service Department.

To produce flowing and/or self –compacting concrete, special concrete mix design is required. Pre-trials are mandatory. Please consult our Technical service Department.

Safety Precautions

Wear gloves and goggles during application. If in contact with skin, wash thoroughly with soap and water. If in contact with eyes or mucous membrane, flush immediately with plenty of water and seek medical attention without delay. Use with adequate ventilation.

For more information, refer to our Material Safety data Sheet (available upon request).

Legal Notes

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PLAGIARISM CHECK.ORG

4.64% PLAGIARISM APPROXIMATELY

Report #10391482

PENDAHULUAN Latar Belakang Dijaman globalisasi ini perkembangan penduduk yang semakin pesat berbanding lurus dengan kebutuhan tempat tinggal yang semakin meningkat. Ketersediaan lahan yang semakin sedikit, maka dari itu sering dijumpai pemukiman yang terletak di pesisir pantai. Pada umumnya material yang digunakan pada rumah yang terletak di pesisir terbuat dari struktur beton. Beton merupakan bagian struktur pada sebuah bangunan yang berfungsi untuk menahan beban bangunan tersebut. Pada umumnya bahan penyusun beton sendiri terdiri dari campuran agregat kasar, agregat halus, semen, zat adiktif dan air. Agregat kasar yang dimaksud adalah batu kerikil sedangkan untuk agregat halus yang dimaksud adalah pasir. Zat adiktif pada campuran beton merupakan bahan tambah yang memiliki fungsi antara lain: meningkatkan kekuatan beton, mempercepat pengerasan pada beton, meningkatkan keawetan (durability) beton, mengurangi daya serap air pada beton, dan menambah daya tahan terhadap sulfat. Pada daerah pesisir di Indonesia terdapat banyak area pemukiman yang sering terendam air rob. Menurut Kamus Besar Bahasa Indonesia (2008), rob didefinisikan sebagai pasang besar (tentang air laut atau sungai) yang menyebabkan luapan air laut. Fenomena banjir rob dipengaruhi oleh pasang surut air laut. Air rob yang

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